

Job: _____
Engineer: _____
Contractor: _____
Prepared By: _____ Date: _____
Model: _____ Indoor/Outdoor: _____

XTherm™ - Type H

Heating Boilers
Models 1005-2005

96% Thermal Efficiency at Full Rate; Up to 99% at Part Load

100% Factory Fire Tested

Maximum Outlet Water Temperature: 225°F

Minimum Acceptable Inlet Water Temperature: 50°F

Full Safety Diagnostics with History

Footprint: Less Than 10.8 ft²

Limited Twenty-Five-Year Thermal Shock Warranty

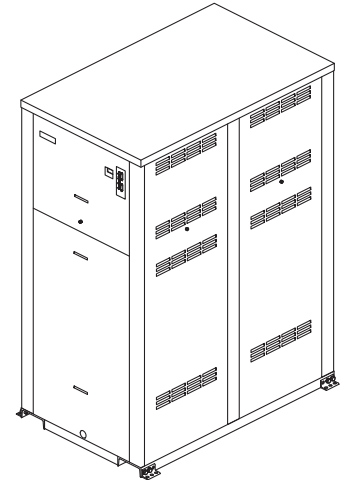
Limited Ten-Year Primary Heat Exchanger Warranty

Limited Five-Year Secondary Heat Exchanger Warranty

Full Electronic Modulation, Constant Ratio 4:1 Turndown

Modulating Controller with LCD Display

Status Display Lights



Heat Exchanger

- Headers
 - ☐ Cast Iron – Standard
 - ☐ Bronze – Option A-1
- ASME H Stamped; 160 PSIG MAWP
- National Board Listed
- Fin Tubing
 - ☐ Copper – Standard
 - ☐ Cupro Nickel – Option A-3
- ASME Powder-Coated Tube Sheet
- Silicone High Temp O-Rings
- ASME Pressure Relief Valve
 - ☐ 60 PSIG – Standard
 - ☐ _____ PSIG – Optional
- 150 PSI Air Vent, Auto
- T&P Gauge, Shipped Loose
- Stainless Steel Secondary Heat Exchanger
- Stainless Steel Evaporator Plate
- Boiler Pump: _____ HP, 120V, 1Ø, 60Hz; Water Hardness: _____ GPG
 - ☐ Cast Iron – Standard
 - ☐ Bronze – Option P-_____

Control

- 120V, 60Hz, 1Ø, Power Supply
- 120/24V 60Hz Transformer
- Ignition Module
 - ☐ 3-Try – Standard
 - ☐ Single-Try – Option C-6
- Hot Surface Ignition (HSI)
- Remote Flame Sensor
- Fixed High Limit, Manual Reset, 240°F
- On/Off Power Switch
- Flow Switch
- Blocked Vent Pressure Switch

Control (cont.)

- Combustion Air Proving Switch
- Freeze Protection
- Pump Switch
- Pump Time Delay
- Diagnostics Panel with LCD Display, 2 lines, 20 characters
- Modulating Temperature Control
- Water Temperature Sensors (3)
- Cold Water Protection
- Blocked Condensate Switch

Burner

- Ultra-Low NOx: Less than 20 PPM (Natural Gas Only)

Gas Train

- Fuel
 - ☐ Natural Gas
 - ☐ Propane
- Zero Governor Regulator
- Dual-Seat Combination Valve
- Electronic Modulating Firing Mode (H7)

Construction

- Indoor/Outdoor Construction
- Enclosed Front Controls
- PolyTuf Powder Coat Finish
- Rear Connections (Water, Gas, Vent, Electrical, Comb. Air, Cond. Drain)
- Combustion Air Filter
- Design Certified ANSI Z21.13/CSA 4.9

Venting

- Vent Termination
 - ☐ Outdoor or Indoor, Vertical – Option D-11
 - ☐ Indoor, Horizontal – Option D-15

- Extractor - Optional

- ☐ By others
- ☐ Not required

Multi-Boiler Digital Temp Controllers

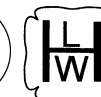
- ☐ B-36 TempTracker Mod+, 2-4 Boilers, OA Reset
- ☐ B-37 TempTracker Mod+, 5-10 Boilers, OA Reset
- ☐ B-38 TempTracker Mod+, 11-16 Boilers, OA Reset
- ☐ B-45 Multi-Mod Platinum, 2-4 Boilers, OA Reset
- ☐ B-46 Multi-Mod Platinum EMS, 2-4 Boilers, OA Reset
- ☐ B-47 Multi-Mod Platinum BACNet, 2-4 Boilers, OA Reset
- ☐ B-48 Multi-Mod Expansion Module, 1-8 Additional Boilers

Options

- ☐ F-10 Low Water Cut-Off, Remote Probe
- ☐ I-1 High Limit, Auto Reset, Adj., 100-240°F
- ☐ I-2 High Limit, Manual Reset, Adj., 100-240°F
- ☐ S-1 Low Gas Pressure Switch, Manual Reset
- ☐ S-2 High Gas Pressure Switch, Manual Reset
- ☐ Z-12 Condensate Neutralizer Kit

Regulatory Agency Requirements

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Raypak®
A Rheem Company

XTherm – Type H

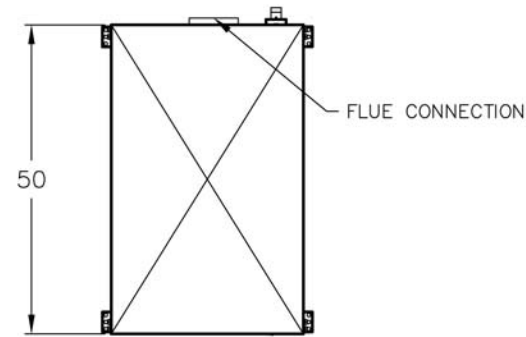
Models 1005-2005

Model _____

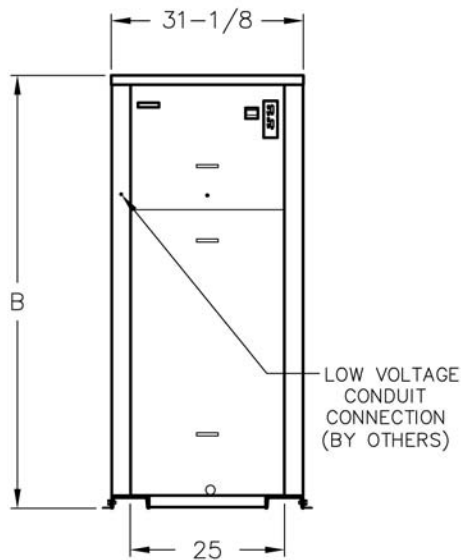
CLEARANCES (in.)

	Front	Rear	Right	Left	Top	Floor	Vent
Certified Minimum	24	12	1	1	0	0	1
Recomm. Service	24	36	24	1	10	n/a	n/a

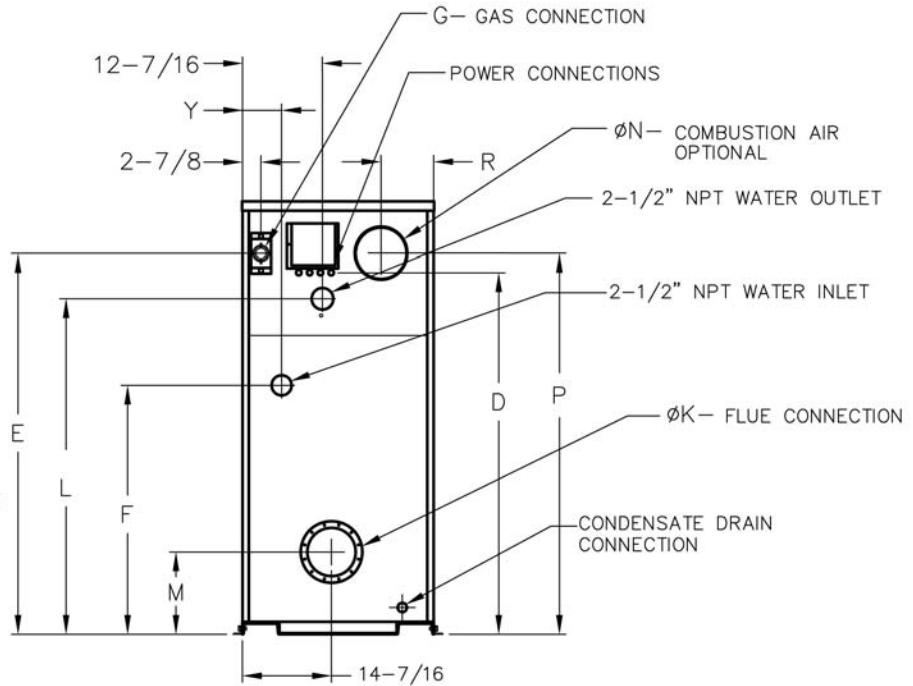
NOTE: Primary/Secondary plumbing is mandatory for proper operation.



TOP VIEW



FRONT VIEW



REAR VIEW

Model (H7-)	MBTUH		Dimensions (in.)												Ship Weight (Lbs.)	Total Amps**
	Input	Output	B Height	D	E	F	G* NPT	K Flue Ø	L	M	N C/A Ø	P	R	Y		
1005	999	959	55-1/8	45	47-1/8	36-1/2	1-1/4	6	40-1/16	11-1/2	6	47-1/8	8-1/16	6-1/16	1065	22
1505	1500	1440	67-1/8	57	59-1/16	38-1/2	1-1/4	8	52-1/16	12-5/8	8	59-1/8	8-3/16	6-1/16	1234	26
2005	1999	1919	81-1/8	71	71-3/16	38-1/2	2	8	64-1/16	12-5/8	8	73-1/8	8-3/16	6-1/4	1461	35

Note: Ratings shown are for elevations up to 4,500 feet. For installations at elevations above 4,500 feet, please consult the factory for additional instructions.

* For Propane Gas, all models are 1

** Supply breaker must have delayed trip.

Model (H7-)	Rate of Flow (GPM)			Maximum Flow		Minimum Flow*	
	20°F ΔT	30°F ΔT	40°F ΔT*	GPM	ΔT (°F)	GPM	ΔT (°F)
1005	95	63	47	113	17	47	40
1505	N/A	96	71	113	25	71	40
2005	N/A	N/A	95	116	33	95	40

* Closed systems only